

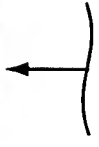
# **Appendix A**

hTIR1 1 -MTCARNGEQLISCCNAPACHSTES-----SPDHLPGDEHAGHPH-HSGCLOVERH-PEVTLIDRSCSNEHGH-IFQAMLGAEEINSSHEPNEHGVOLIDVCSQ-SANVATIRVI 119  
rTIR1 1 MTFNAHLLSLOI-VYOMASCORTES-----SPGSPPEHMAHGRSI-HGDCLOVERH-ELMTSDRDPDNGHGH-IFQAREEJEEINSSHEPNEHGVOLIDVCSQ-SANVATIRVI 118  
hTIR2 1 -GPRKTCISLIF-MAVAEF-AE-----NSDMLPGDMHGGHSL-HANMGEIHLNLOVQK-EYEVKIGNIMQAREFAVEENNDSSAPVILGELYDVOYI-SNAQPMILKEI 115  
rTIR2 1 -GPRKTCISLISL-HHVLPKPKGIVE-----NSDEHAGDHGHHH-HANVSTISHSYLQAHON-ETFMKVLGNLQAMFAVEENNDSSAPVILGELYDVOYI-SNAHFGIMEI 118  
hTIR3 1 --MGPMAGLSIMAILHPCGALOLS-----OOLRNKQDMGHPHIGENEHGLSRPRSSPHOT-RESSGELLNATAMMAVEENNDSSAPVILGELYDVOYI-SNAHFGIMEI 117  
rTIR3 1 --MGELATGSLAHLEIGSSSLOIS-----OQJPAQGDULGHPHIGETTERPILNORIPNGILOT---RSSH-GHLLAMAKMAVEENNDSSAPVILGELYDVOYI-SNAHFGIMEI 117  
mGluR1 1 MVRLLIFFPMLFLENSIILPRMPDKVILLAGASSQSRVARDVDVILIGALSHVHPHPEKVE-----RQG-EIREQNGIORVENHHTDKNADPVILHPIHFGSEIRDSOMSSALPQSIETI 123  
hTIR1 120 SLHG-----OHHELOGLHHSB-ITMAVIGPISINRAHPRAPHSPEIMPTSMASSESLTSWROMPSHRIUNDKOYEHMLHONFENHISLVGSSDYLGOI-NOXLENQIGO 236  
rTIR1 119 ALQG-----PRHPELOKOLRNHSS-KAAEIGPNDIDHATMAHGETMELHSLSSVWSKAKTEPSHRTVPSDPROVEMVOLLOSQMMISLIGYDGOI-NOXLENQIGO 235  
hTIR2 116 AHE-----DNLHPLODLSNHTS-RMAVIGPNSSESVANANESLHILPOLHSLSDLRKVR-ELLRTDSADHEAWOIMLHEMAVILVNSSDYGRDNCILGEEVARD 231  
rTIR2 119 AOD-----DDLPELKDYSQYMP-HMAVIGPNSSESVANANESLHILPOLHSLSDLRKVR-ELLRTDSADHEAWOIMLHEMAVILVNSSDYGRDNCILGEEVARD 235  
hTIR3 118 AKAG-----SRDLAYCNYOYOP-RVEMHGPSSSLMVTIKTSESLTMOPOSIGSVELSARETPESTERVPSDVOITPAALDQFEGAMMALGSDDEYGRGSLISALPAAR 234  
rTIR3 118 AKVG-----SOSLAYCNYOYOP-RVEMHGPSSSLMVTIKTSESLTMOPOSIGSVELSARETPESTERVPSDVOITPAALDQFEGAMMALGSDDEYGRGSLISALPAAR 234  
mGluR1 124 RDSLSIRDEKDELNCLPDQOTLPGRKKPIAGVIGHSSSVANQVONLOLEDLPOLMASHSILDSKTLYKELRVMSDTLQAMDIVKRYVITYNSVHTEGNGESQMDHETELAOE 252  
hTIR1 237 ICIANQDIMEFSAOYG-DEH-MOCMBHLO-AGHMAAFSSROJARVEFESVTLINFGKAWA-SEANLISRHTGVRGQORIQMTGMAQKRAVPQIKAFEEAYAR--NDKATPRCKK 354  
rTIR1 236 ICIANQDIMEFSAOYG-DEH-MOCMBHLO-AGHMAAFSSROJARVEFESVTLINFGKAWA-SEANLISRHTGVRGQORIQMTGMAQKRAVPQIKAFEEAYAR--NDKATPRCKK 353  
hTIR2 232 ICIANQDIMEFSAOYG-DEH-MOCMBHLO-AGHMAAFSSROJARVEFESVTLINFGKAWA-SEANLISRHTGVRGQORIQMTGMAQKRAVPQIKAFEEAYAR--NDKATPRCKK 355  
rTIR2 236 ICIANQDIMEFSAOYG-DEH-MOCMBHLO-AGHMAAFSSROJARVEFESVTLINFGKAWA-SEANLISRHTGVRGQORIQMTGMAQKRAVPQIKAFEEAYAR--NDKATPRCKK 355  
hTIR3 235 ICIANQDIMEFSAOYG-DEH-MOCMBHLO-AGHMAAFSSROJARVEFESVTLINFGKAWA-SEANLISRHTGVRGQORIQMTGMAQKRAVPQIKAFEEAYAR--NDKATPRCKK 355  
rTIR3 235 ICIANQDIMEFSAOYG-DEH-MOCMBHLO-AGHMAAFSSROJARVEFESVTLINFGKAWA-SEANLISRHTGVRGQORIQMTGMAQKRAVPQIKAFEEAYAR--NDKATPRCKK 355  
mGluR1 253 ICIANQDIMEFSAOYG-DEH-MOCMBHLO-AGHMAAFSSROJARVEFESVTLINFGKAWA-SEANLISRHTGVRGQORIQMTGMAQKRAVPQIKAFEEAYAR--NDKATPRCKK 373  
hTIR1 355 G-----SWSSNOLQREOAFMAHTMPKIKAFS-----MSSANMMPRAVAVAHGHI-LOILGOA-SCAQR-GRVAPWOHLOILKMHET-THKQTYAFENDRDPSSNITAMDNGRK-TITVL 466  
rTIR1 354 G-----SWSSNOLQREOAFMAHTMPKIKAFS-----MSSANMMPRAVAVAHGHI-LOILGOA-SCAQR-GRVAPWOHLOILKMHET-THKQTYAFENDRDPSSNITAMDNGRK-TITVL 465  
hTIR2 356 S-----YLO-NOBDNOLNLSFNTLRTSG-ERMMSVSAVAVAHAHSLHGGD-KSLOTK-RVAPWOHLOILKMHET-THKQTYAFENDRDPSSNITAMDNGRK-TITVL 465  
rTIR2 360 R-----TLO-NOBDNOLNLSFNTLRTSG-ERMMSVSAVAVAHAHSLHGGD-KSLOTK-RVAPWOHLOILKMHET-THKQTYAFENDRDPSSNITAMDNGRK-TITVL 469  
hTIR3 356 EREGCEEDVVGORPOODCTHONVSGIN-----HHQTESYVAASVQALHHTLQCA-AGQPAODEVAPWOHLOILKMHET-THKQTYAFENDRDPSSNITAMDNGRK-TITVL 471  
rTIR3 355 -AELDLEERWGPSSQODYTLONLSSGIMONISAGOLHOFAPMAAASVQALHHTLQCA-AGQPAODEVAPWOHLOILKMHET-THKQTYAFENDRDPSSNITAMDNGRK-TITVL 478  
mGluR1 374 HR-----FOQRLPGHLLNHNKVKCTGNESTLEENVQ-DSMGELINLITYVAHGIQNHHAALCPGHVGIQDAMEIDGRKHDELTKSSIVGVSSEEMIDEKGAPEGIDIMNITQTEANKYDYHV 497

TO FIG. 1B

FIG. 1A

FROM FIG. 1A



HTIR1 467 SSTWSPVQINNETKQNHGKDVCFKSSSDGHPGHOR-VWIGHHQCEKCNPOGAGTEIN-KSDLYKCPCKGKFWPPSSQICPRIMWELALREHLSWEEANTHIIHAILSTGAFWHLDD 594  
RTIR1 466 SASLSPVHIDNKLEQWHEGANNQVPSVQITDILAGHHR-VWAGSHQCEKQVEQAGTEIN-MSEHLICQPGHEWAPKSHQCEPRIVEEAWHEEISWELIANTHIIHANGTAGEWHLH 593  
HTIR2 466 ASYPIQROKKN-IQDLSMHNNTIPMSCKRSGOK-KPVGHWQCEQDQDLPRETAHTEDEYQQAQPNENSVQSEISCKRQLEAWHEEPIIYANALHAGETSTAHIMWHLH 593  
RTIR2 470 ASYPTSKRIY-IINVSMTIPNNIPASCKSGQFGOM-KSVGELHPCEQDQDMEGVLNADDEYQISQGSWSTKNDITCQRPTEFWHEVPIIYVAIIHAGETSTAHIMWHLH 597  
HTIR3 472 GFN-GSLRTER--LEPWHEISDQKPSCKSGQFGOMR-RWAGESQDQDVIDQESVRQ-NPDIAQTEQDQESPSSTRCHRRSRILAWGEPAMITHEHLSATGIMAGTEWHLH 596  
RTIR3 479 GFEN-GTLDQH--SKMWRG--NWPVSSQSRCKDQGM-RWAGESQDQDQDQKSGYRK-HPDDEQKQKQDQSPKSTQIPRPPELENGEPAWSTHILQIMGTEWHLH 601  
MG1UR1 498 GFWH--EGWLNDDYKQMNK--SGMVRSCSPCKKGLITVRKGVSCQMTQAKENEVQ---DEETQPAQDQGMWPAETIGQEPITPRLHNSDIESIILAFESQDGIIMHFWTLEWLYRDI 620  
HTIR1 595 PAVESACGQCELMISLAASSSLEYGHECEPIRPAQHRAHMLGHEHLSQETVRSQDILITKSTIMEPTIHAWONGGTEFM-ISSAQDITQIMAWWEPPLA-REXQRPIMLISQTE 722  
RTIR1 594 PAVRSACGQCELMISLVASSSEYSPHECEMPACLRQPLPSLGAHHSQMLTSSQDMLIKSTIMEPTIKMAONEGAGTEI-VSSVTHILQIMAWWEPPT-REXQRPIMLISQTE 721  
HTIR2 594 PAVRSACGQCELMITLIVAWMPVYQCPKMSQIQRMIPLOHIOISQIARSTQICAKEMASPRASYNRYQCPYNSM-ETIYLKMLHAGMAGTGLSPTRIDDDPKTIWSONP 722  
RTIR2 598 PAVESACGQCELMIVHILAFEGMPVYQCPKMSQIQRMIPLOHIOISQIARSTQICAKEMASPRASYNRYQCPYNSM-ETIYLKMLHAGMAGTGLSPTRIDDDPKTIWSONP 726  
HTIR3 597 PIMDASGGLACFGINQGINQISVLIPGQSPARCIAQDPLSHPLGQISSTIELQAEHIVASEPLISWADRISGCIQGMIMLML-LAMTLEMATQTMIAAPPEV-TDMMLPFAIVHCR 724  
RTIR3 602 PIMDASGGLACFGICQIGICFISMLHGPBRSACIAQPMHPLIGQISSTIELQAEHIVASEPLISWADRISGCIQGMIMLML-LAMTLEMATQTMIAAPPEV-TDMMLPFAIVHCR 729  
MG1UR1 621 PAVSSSRPLCYITLAGELIAYCEPTLAKPEITTSQITQILHVCISAVQISALVTKNRPDARILAGSKKICIRKPRFMSAWOMITLASLISWQILAWTITMEPEEL-LSAESIK-ENWILQV 748  
HTIR1 723 TNSLGLLALFMNGHSHSIPACSYGQDLPVNAEAKOMHESLLENVSWAEETLASMDKMLPAAWAGTSSSGGQVEIPQGVHLCKPDLASSTPHQASIQDVRRCST----- 841  
RTIR1 722 VNSVGLLALFMNHSHSHVCSNLAGELPVAEAKOMHESLLENVSWAEETLASMDKMLPAAWAGTSSSGGQVEIPQGVHLCKPDLASSTPHQASIQDVRRCST----- 840  
HTIR2 723 NYRNLHENTSIDLHNVGSEPIVMGGEPLVNAEAKOMHESLLENVSWAEETLASMDKMLPAAWAGTSSSGGQVEIPQGVHLCKPDLASSTPHQASIQDVRRCST----- 839  
RTIR2 727 NYRNLHENTSIDLHNVGSEPIVMGGEPLVNAEAKOMHESLLENVSWAEETLASMDKMLPAAWAGTSSSGGQVEIPQGVHLCKPDLASSTPHQASIQDVRRCST----- 843  
HTIR3 725 RSMSTGLAHANAHLALALGELHRSQGRNARCAQIMAMIANEITMSVAFANVOMLRPAQMGITLCVIGHLAETHRCQLLRQGLATPEHELGGGRPAQOGQNDGN-TGNGKHE 852  
RTIR3 730 RSMSTGLAHANAHLALALGELHRSQGRNARCAQIMAMIANEITMSVAFANVOMLRPAQMGITLCVIGHLAETHRCQLLRQGLATPEHELGGGRPAQOGQNDGN-TGNGKHE 858  
MG1UR1 749 SGLVAVPVGNGELHNSQTYAAEKTRNAPVNAEAKOMHESLLENVSWAEETLASMDKMLPAAWAGTSSSGGQVEIPQGVHLCKPDLASSTPHQASIQDVRRCST----- 845

FIG. 1B